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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/825,361	04/16/2004	Ji Hyun Hwang	MRE-0045.1	8094		
34610 FLESHNER & I	7590 01/08/200 KIM, LLP		EXAMINER			
P.O. BOX 221200			WAGGONER, TIMOTHY R			
CHANTILLY, V	VA 20153		ART UNIT	PAPER NUMBER	PER NUMBER	
			3651			
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE		
3 MONTHS		. 01/08/2007	PAPER ·			

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/825,361	HWANG ET AL.			
		Examiner	Art Unit			
		Timothy R. Waggoner	3651			
Period fo	The MAILING DATE of this communication apported to the second section apport.	oears on the cover sheet with the c	orrespondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period- ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailin- ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)[🔀]	Responsive to communication(s) filed on 03 N	lovember 2006				
·	• • •	s action is non-final.				
3)	Since this application is in condition for allowa		secution as to the merits is			
•—	closed in accordance with the practice under E	•				
Disposit	ion of Claims					
4) 🛛	Claim(s) 15-32 is/are pending in the applicatio	n.				
	4a) Of the above claim(s) is/are withdra					
	Claim(s) is/are allowed.					
6)🖂	Claim(s) 15-17 and 32 is/are rejected.					
7)🖂	Claim(s) 18-31 is/are objected to.					
8)□	Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	ion Papers					
9)	The specification is objected to by the Examine	er.	•			
	The drawing(s) filed on is/are: a) acc		Examiner.			
,	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correct					
11)	The oath or declaration is objected to by the Ex					
Priority ι	under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign ☑ All b) ☐ Some * c) ☐ None of:		-(d) or (f).			
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No.					
	3. Copies of the certified copies of the prio		ed in this National Stage			
* C	application from the International Bureau					
	See the attached detailed Office action for a list	or the certified copies not receive	a.			
Attoologic	Ma)					
Attachmen	t(s) e of References Cited (PTO-892)	A\	(DTO 442)			
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
	mation Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P	atent Application			
rape	r No(s)/Mail Date	6)				

Art Unit: 3651

DETAILED ACTION

Response to Arguments

Applicant's arguments, see arguments, filed 11/03/2006, with respect to the rejection(s) of claim(s) 15-17 and 32 under 102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Hawkswell USPN 4.687,152 as modified by Briehl 5,941,674 or Umetsu et al. USPN 5,289,625.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 15-17 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hawkswell USPN 4,687,152 in view of Briehl 5,941,674 or Umetsu et al. USPN 5,289,625.

Hawkswell discloses a parts feeding device comprising:

(Re claim 15) "a feeding unit installed on a main frame, the feeding unit comprising" (52 figure 2). "a tape at a predetermined pitch interval" (38 figure 2). "a vinyl separation unit" (68 figure 2). "a vinyl recovery unit" (70 figure 2).

Hawkswell does not disclose that the feeding unit is capable of moving forward and backwards driven by a force generating device comprising a plurality of armature coils and a magnet unit.

Briehl and Umetsu both teach a feeding unit capable of moving forward and backwards driven by a force generating device comprising a plurality of armature coils and a magnet unit.

It would be obvious to one skilled in the art to modify Hawkswell to make the feeding unit capable of moving forward and backwards and driven by a force generating device comprising a plurality of armature coils and a magnet unit because it uses fewer moving parts making the device simpler and more robust.

(Re claim 16) "vinyl separation unit utilizes rotational force generated by the feeding unit" (48 figure 2, Hawkswell).

(Re claim 17) "vinyl recover unit is connected to the vinyl separation unit by a belt and recovers the vinyl" (76 figure 2, Hawkswell).

(Re claim 32) "a surface mounting device" (23 figure 1, Hawkswell).

Allowable Subject Matter

Claims 18-31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy R. Waggoner whose telephone number is (571) 272-8204. The examiner can normally be reached on Mon-Thu 8am-2pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Crawford can be reached on (571) 272-6911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TRW

SUPERVISORY POTENT EXAMINER